

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/856,114C
Source: IFJ16
Date Processed by STIC: 8/10/06

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 08/10/2006

PATENT APPLICATION: US/09/856,114C

TIME: 09:21:50

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\08102006\I856114C.raw

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4 <110> APPLICANT: Hyo Jeong Hong
5      Chun Jeih Ryu
6      Hangsook Hur
8 <120> TITLE OF INVENTION: HUMANIZED ANTIBODY SPECIFIC FOR SURFACE
9      ANTIGEN PRE-S1 OF HBV AND PREPARATION METHOD THEREOF
13 <130> FILE REFERENCE: 118.13USWO
15 <140> CURRENT APPLICATION NUMBER: 09/856,114C
16 <141> CURRENT FILING DATE: 2001-05-18
18 <150> PRIOR APPLICATION NUMBER: PCT/KR99/00699
19 <151> PRIOR FILING DATE: 1999-11-19
21 <150> PRIOR APPLICATION NUMBER: 1998-49663
22 <151> PRIOR FILING DATE: 1998-11-19
24 <160> NUMBER OF SEQ ID NOS: 38
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 26
30 <212> TYPE: DNA
31 <213> ORGANISM: Artificial Sequence
33 <220> FEATURE:
34 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 1
36 <400> SEQUENCE: 1
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40 <211> LENGTH: 27
41 <212> TYPE: DNA
42 <213> ORGANISM: Artificial Sequence
44 <220> FEATURE:
45 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 2
47 <400> SEQUENCE: 2
48 ggccccaggc ttcaccactt cagctcc                                27
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 18
52 <212> TYPE: DNA
53 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 3
58 <400> SEQUENCE: 3
59 gtgaagcctg gggcctca                                          18
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 27
63 <212> TYPE: DNA
64 <213> ORGANISM: Artificial Sequence
66 <220> FEATURE:

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67 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 4
69 <400> SEQUENCE: 4
70 agaactactg aatgcgtagc cagaagc 27
72 <210> SEQ ID NO: 5
73 <211> LENGTH: 27
74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 5
80 <400> SEQUENCE: 5
81 gcattcagta gttcttgat gaactgg 27
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84 <211> LENGTH: 27
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 6
91 <400> SEQUENCE: 6
92 aatccgtcca atccactcaa gaccctg 27
94 <210> SEQ ID NO: 7
95 <211> LENGTH: 21
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:
100 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 7
102 <400> SEQUENCE: 7
103 tggattggac ggatttatcc t 21
105 <210> SEQ ID NO: 8
106 <211> LENGTH: 39
107 <212> TYPE: DNA
C--> 108 <213> ORGANISM: Artifical Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 8
113 <400> SEQUENCE: 8
114 ggatttgtct gcagtcagtg tggccttgcc ctggaactt 39
116 <210> SEQ ID NO: 9
117 <211> LENGTH: 39
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 9
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125 actgcagaca aatccacgag cacagcctac atggagctc 39
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128 <211> LENGTH: 33
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
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135 <400> SEQUENCE: 10
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138 <210> SEQ ID NO: 11
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141 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
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146 <400> SEQUENCE: 11
147 gcaagagagt acgacgaggc ttactggggc caa 33
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150 <211> LENGTH: 26
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 12
157 <400> SEQUENCE: 12
158 cggtcgactc atttaccgag agacag 26
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161 <211> LENGTH: 26
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 13
168 <400> SEQUENCE: 13
169 caaagcttgg aagcaagatg gattca 26
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172 <211> LENGTH: 36
173 <212> TYPE: DNA
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 14
179 <400> SEQUENCE: 14
180 tggagtttgg gtcacaaaga tatccccaca ggtacc 36
182 <210> SEQ ID NO: 15
183 <211> LENGTH: 48
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 15
190 <400> SEQUENCE: 15
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193 <210> SEQ ID NO: 16
194 <211> LENGTH: 39
195 <212> TYPE: DNA
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 16
201 <400> SEQUENCE: 16

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202 caccagatag attagcgct ttggagactg gcctggctt      39
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206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 17
212 <400> SEQUENCE: 17
213 ctaatctatc tgggtgtctaa actggactct ggagtcacct      39
215 <210> SEQ ID NO: 18
216 <211> LENGTH: 17
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 18
223 <400> SEQUENCE: 18
224 gaagtcgacc taacact      17
226 <210> SEQ ID NO: 19
227 <211> LENGTH: 115
228 <212> TYPE: PRT
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Variable region of heavy chain in mouse KR127
233     antibody
236 <400> SEQUENCE: 19
237 Gln Val Gln Leu Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
238 1           5           10           15
239 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser
240           20           25           30
241 Trp Met Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
242           35           40           45
243 Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Gly Lys Phe
244           50           55           60
245 Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
246 65           70           75           80
247 Met Gln Leu Ser Ser Leu Thr Ser Val Asp Ser Ala Val Tyr Phe Cys
248           85           90           95
249 Ala Arg Glu Tyr Asp Glu Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
250           100          105          110
251 Val Ser Ala
252           115
254 <210> SEQ ID NO: 20
255 <211> LENGTH: 115
256 <212> TYPE: PRT
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Variable region of humanized heavy chain
261     HKR127HC(HZI)
264 <400> SEQUENCE: 20

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265 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Val Lys Pro Gly Ala
266 1 5 10 15
267 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser
268 20 25 30
269 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
270 35 40 45
271 Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Ala Gln Lys Phe
272 50 55 60
273 Gln Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
274 65 70 75 80
275 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys
276 85 90 95
277 Ala Arg Glu Tyr Asp Glu Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
278 100 105 110

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279 Val Ser Ser

280 115

282 <210> SEQ ID NO: 21

283 <211> LENGTH: 115

284 <212> TYPE: PRT

285 <213> ORGANISM: Artificial Sequence

287 <220> FEATURE:

288 <223> OTHER INFORMATION: Variable region of humanized heavy chain

289 HKR127HC(HZIII)

293 <400> SEQUENCE: 21

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294 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
295 1 5 10 15
296 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Ser
297 20 25 30
298 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
299 35 40 45
300 Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Ala Gln Lys Phe
301 50 55 60
302 Gln Gly Arg Val Thr Met Thr Ala Asp Lys Ser Thr Ser Thr Val Tyr
303 65 70 75 80
304 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
305 85 90 95
306 Ala Arg Glu Tyr Asp Glu Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
307 100 105 110

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308 Val Ser Ser

309 115

311 <210> SEQ ID NO: 22

312 <211> LENGTH: 113

313 <212> TYPE: PRT

314 <213> ORGANISM: Artificial Sequence

316 <220> FEATURE:

317 <223> OTHER INFORMATION: Variable region of light chain in mouse KR127

318 antibody

323 <400> SEQUENCE: 22

324 Asp Ile Leu Met Thr Gln Thr Pro Leu Ile Leu Ser Val Thr Ile Gly

VERIFICATION SUMMARY

DATE: 08/10/2006

PATENT APPLICATION: US/09/856,114C

TIME: 09:21:51

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\08102006\I856114C.raw

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